

FIG. 1

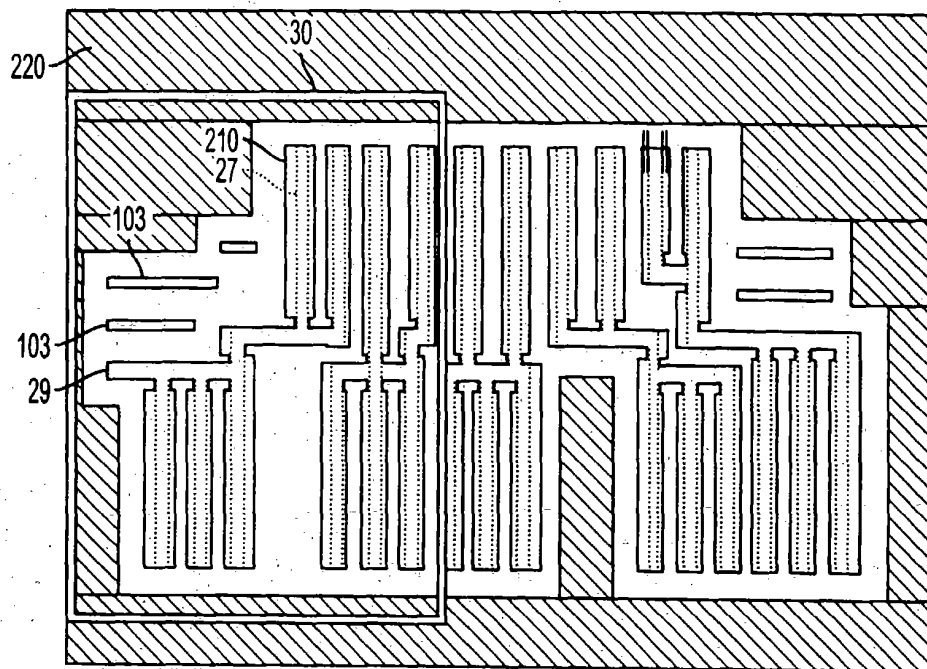


FIG. 2A

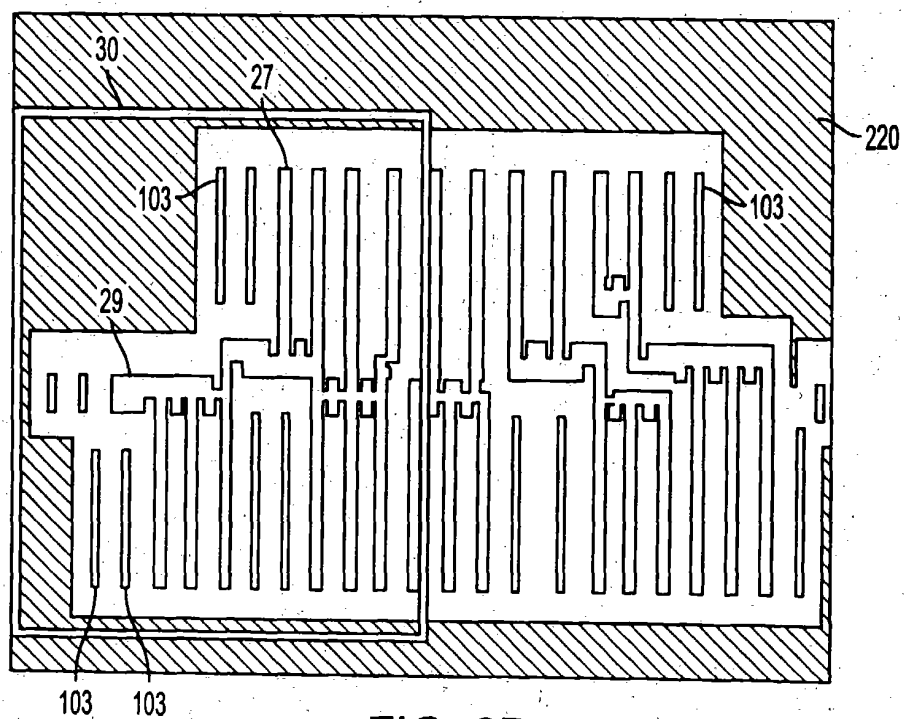


FIG. 2B

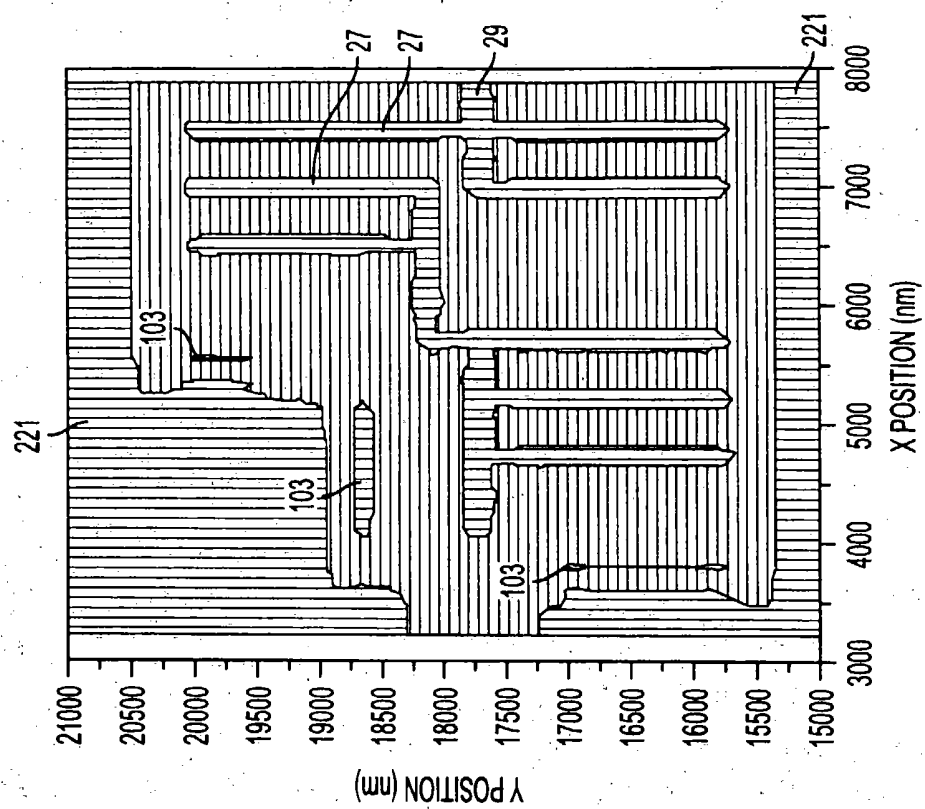


FIG. 3A

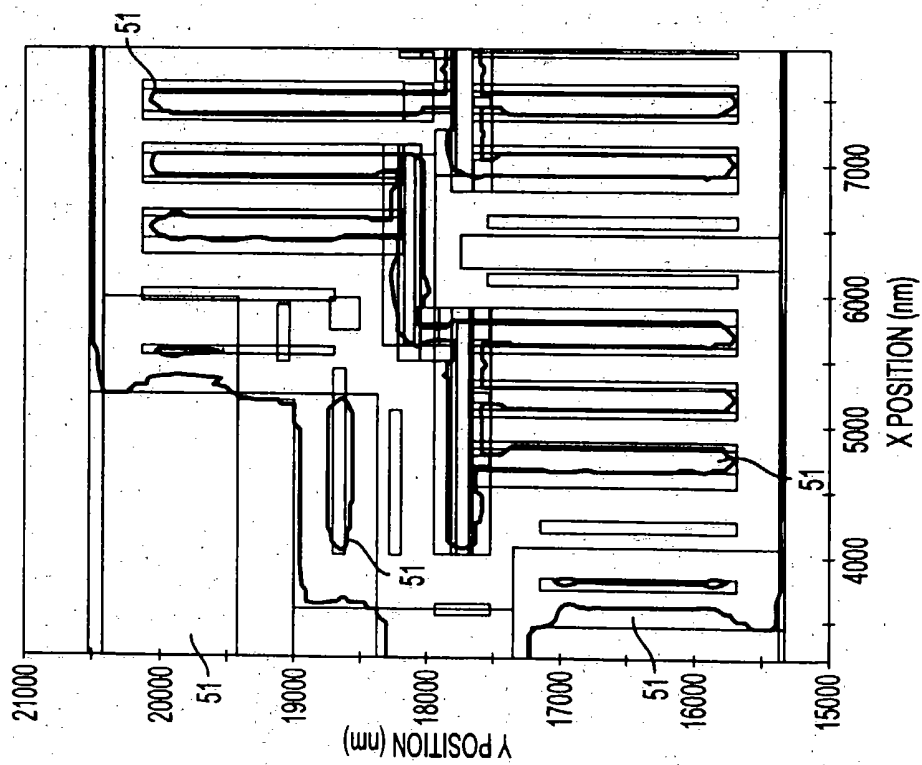


FIG. 3B

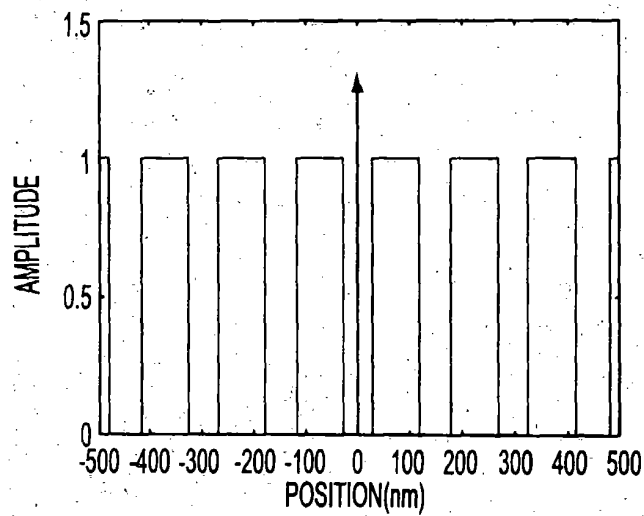


FIG. 4

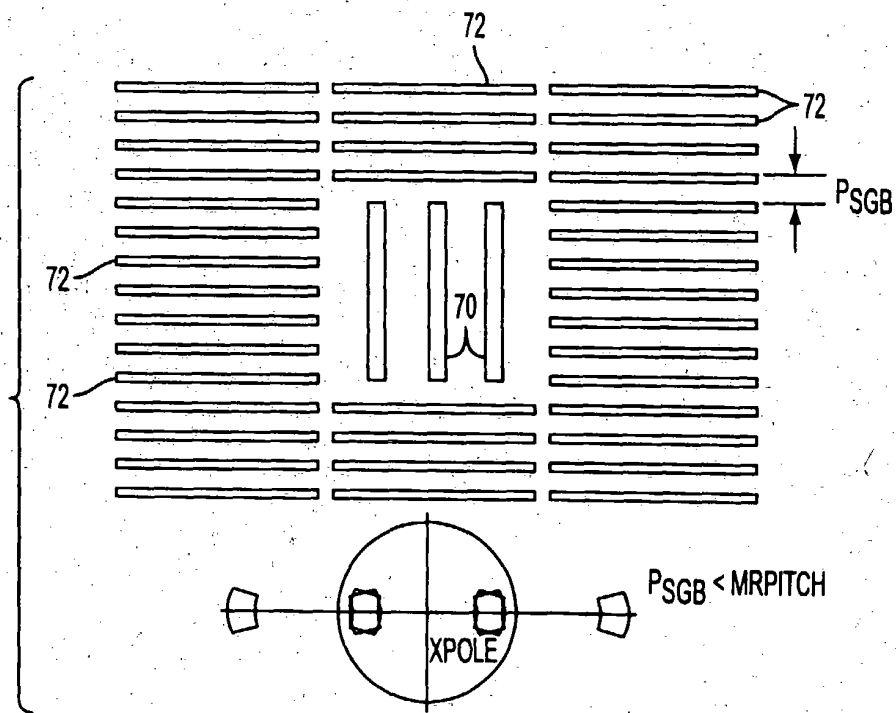


FIG. 5A

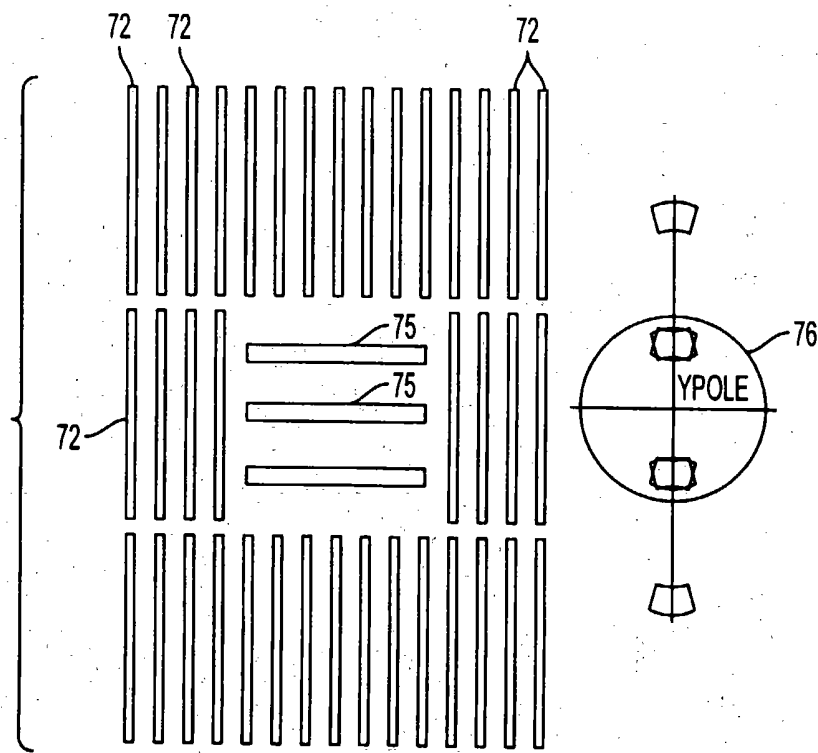


FIG. 5B

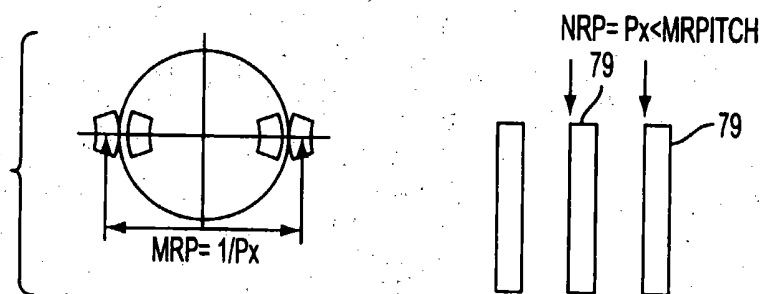


FIG. 6

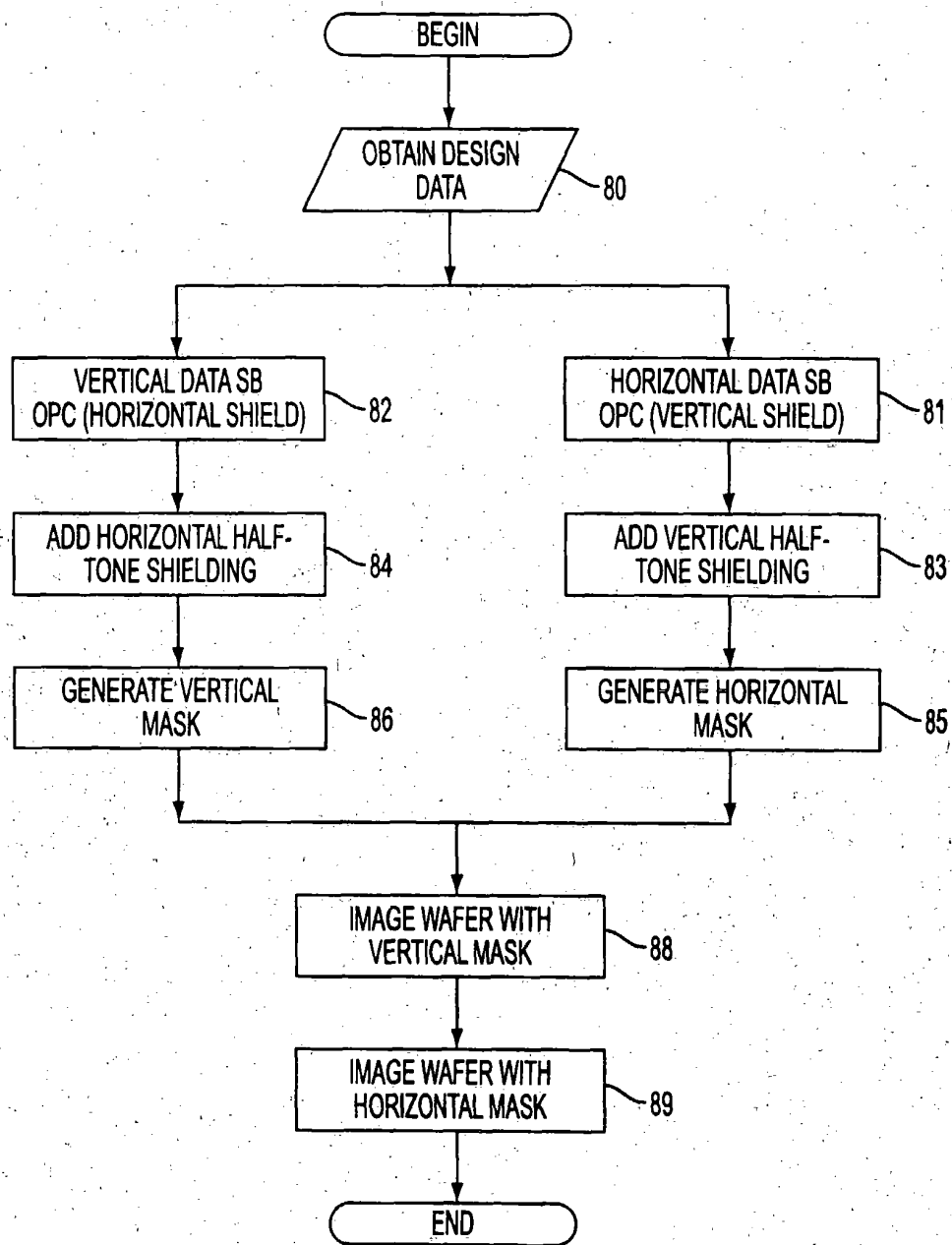


FIG. 7

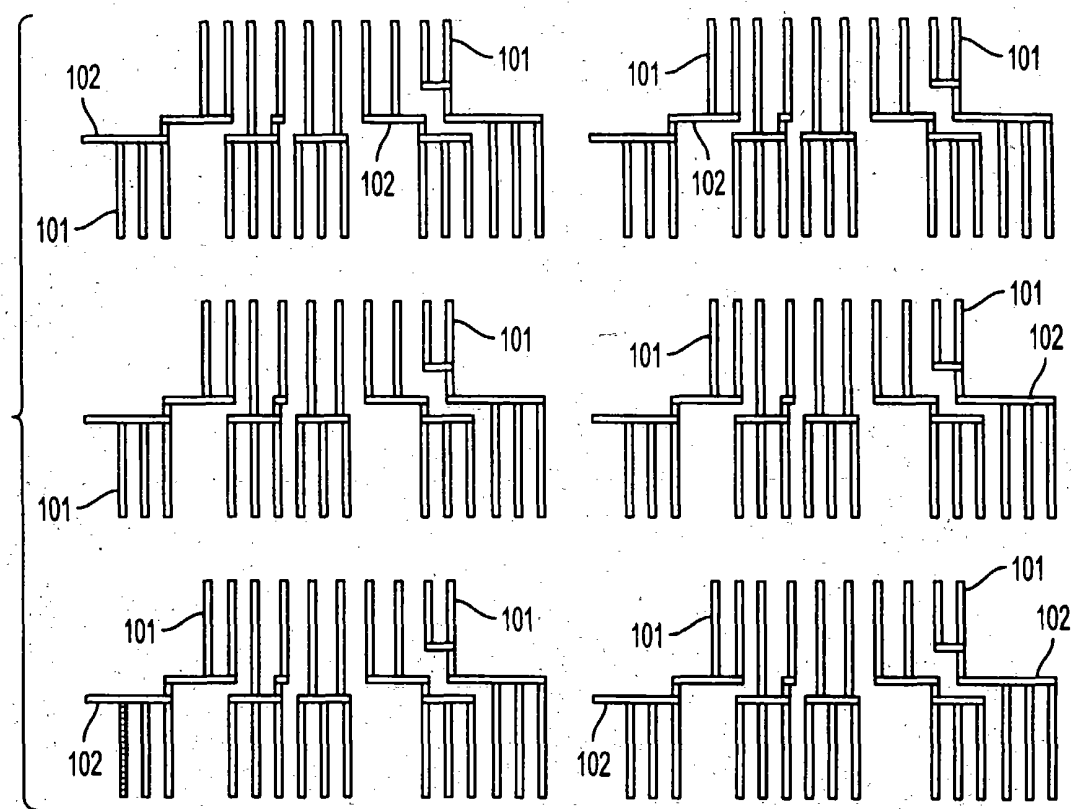


FIG. 8

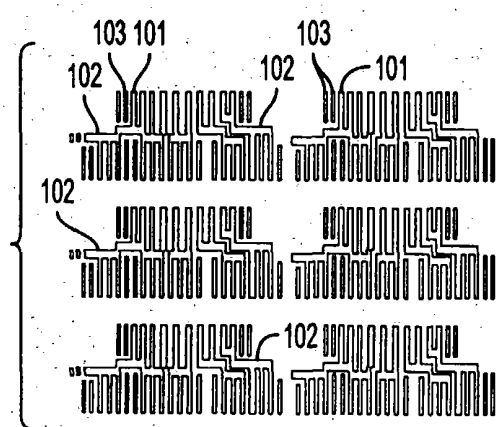


FIG. 9A

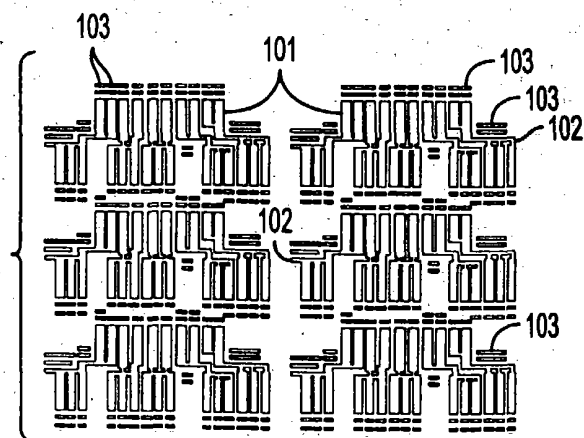


FIG. 9B

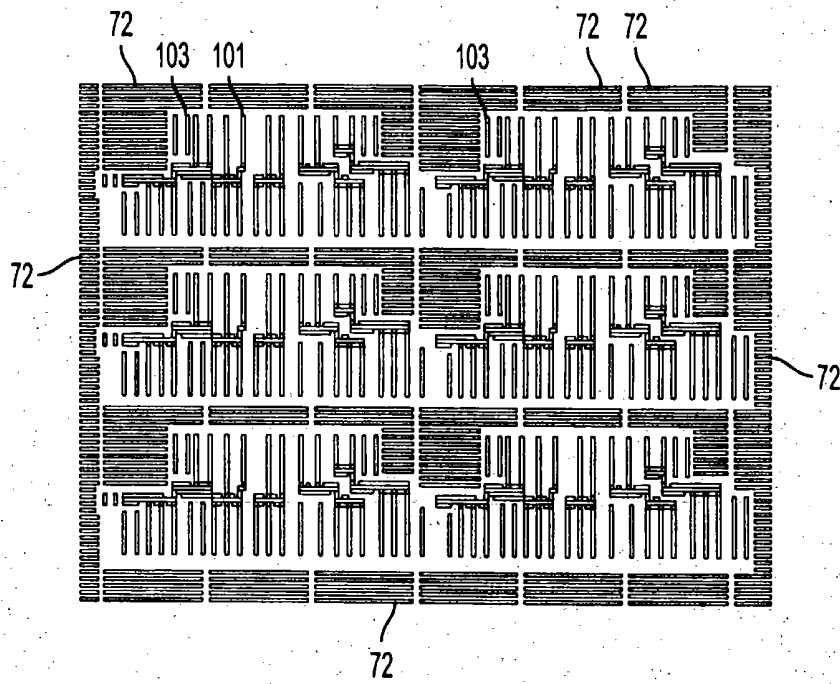


FIG. 10A

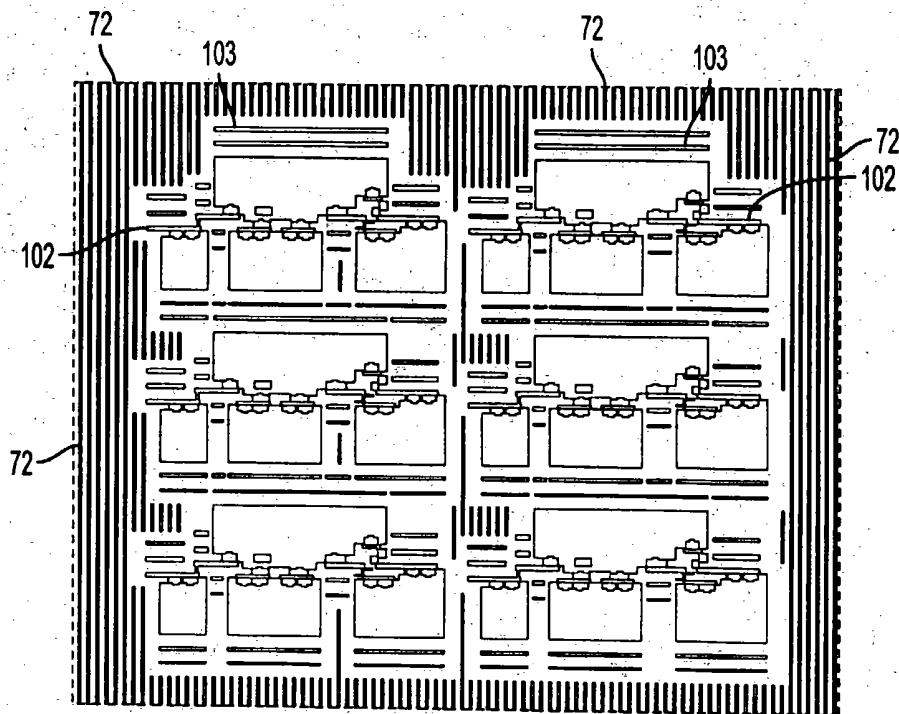


FIG. 10B



PATTERN	COVERED AREA (SQ MICRONS)	TOTAL AREA PATTERN FILE (SQ MICRONS)	% COVERAGE
TARGET	15.80638	173.39989 WAFFDPTGT.PF : TARGET LAYER	9
TARGET W RULE BASED OPC	30.08119	176.78820 HNOWAFFLE.PF : HORIZONTAL NO WAFF	17.3
TARGET W RULE BASED OPC	24.16783	176.78820 VNOWAFFLE.PF : VERTICAL NO WAFF	13.6
RULE-BASED OPC + IDWS	61.05581	176.78820 WAFFDPXHZ.PF : HORIZONTAL WITH WAFF	35
RULE-BASED OPC + IDWS	53.34173	176.78820 WAFFDPXVT.PF : VERTICAL WITH WAFF	30

TABLE 1: COMPARISON OF AREA COVERAGE FOR PATTERNS WITH DIFFERENT TREATMENT.

FIG. 11

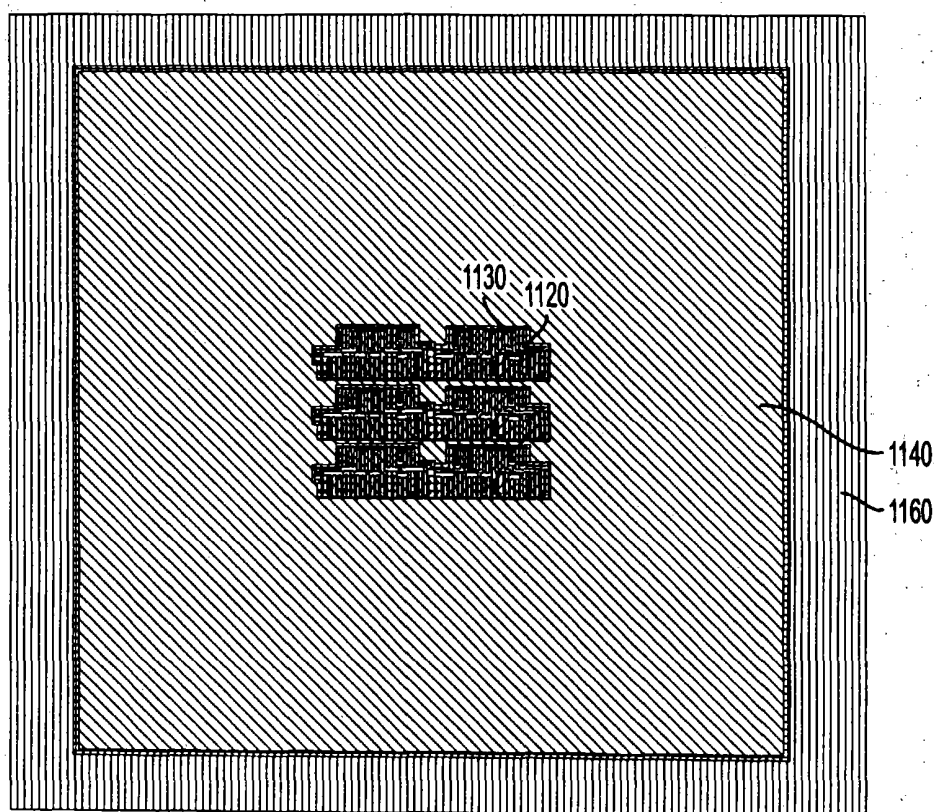


FIG. 12A

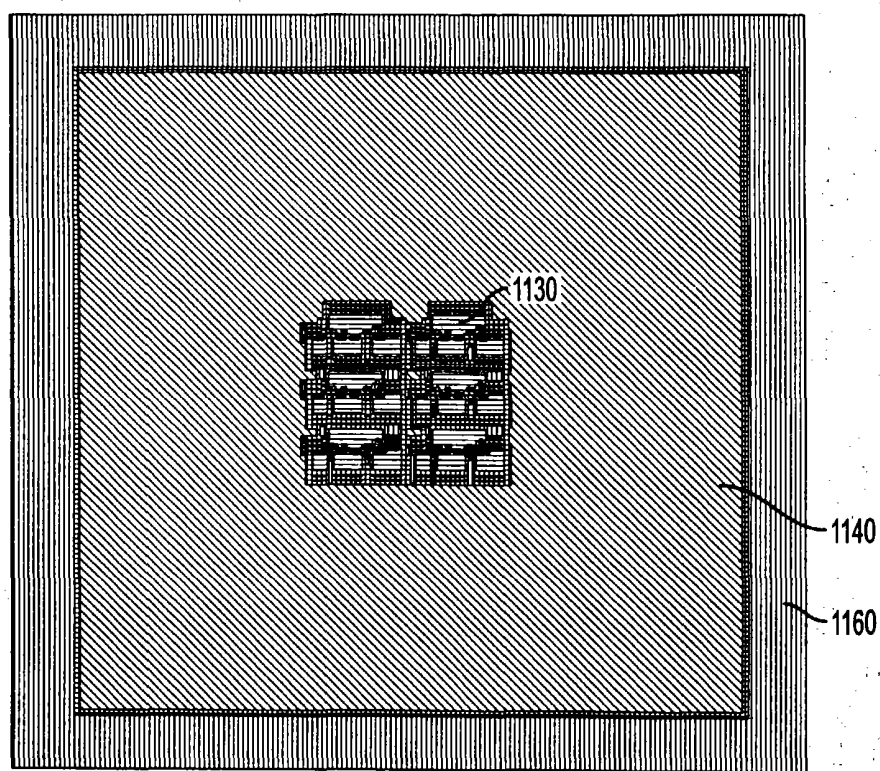


FIG. 12B

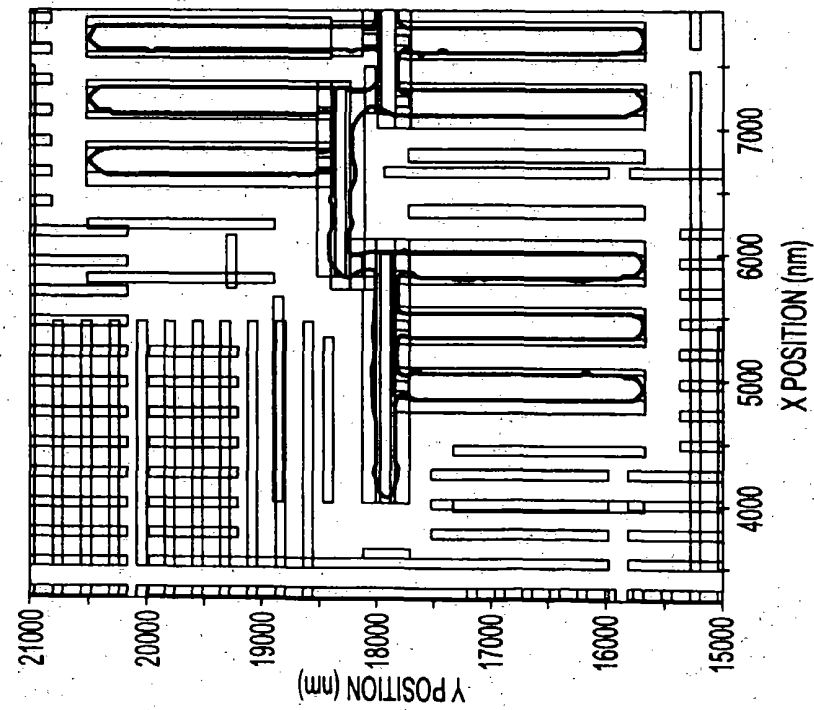


FIG. 13A

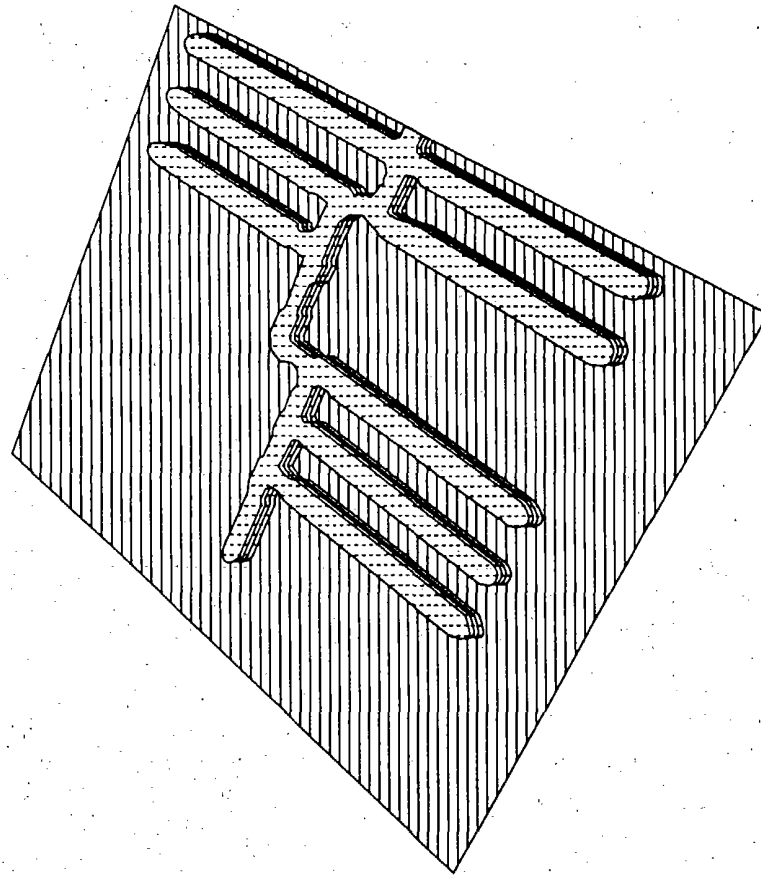


FIG. 13B

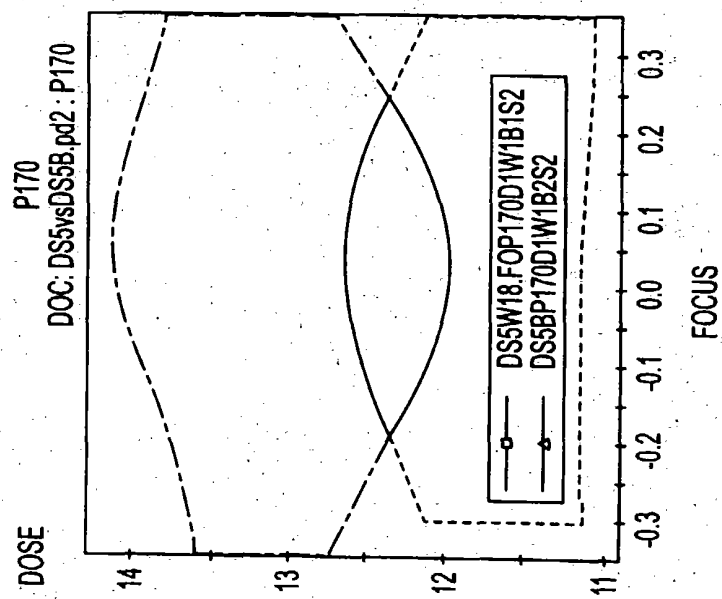


FIG. 14A

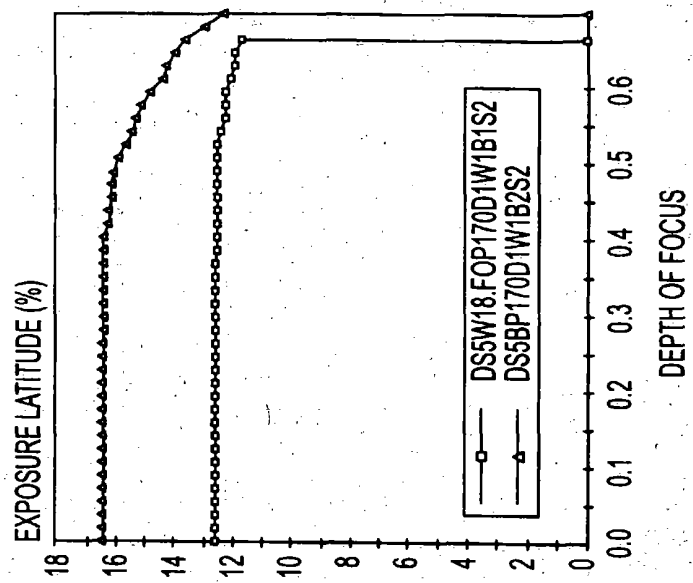
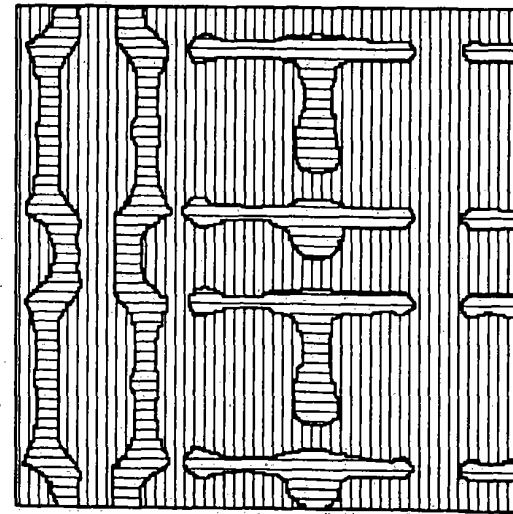
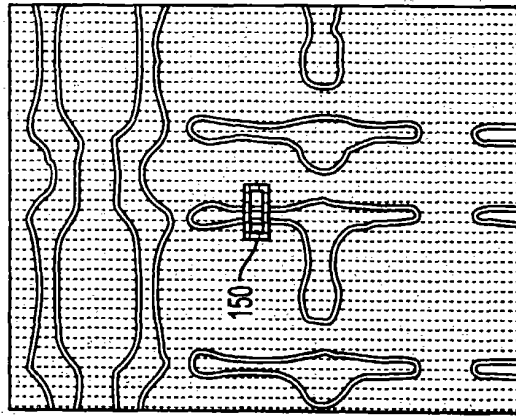


FIG. 14B



C2R-1 CD=63.4nm  
E12.6 F0.05

FIG. 15A



C2R-1 CD=63.4nm  
E12.6 F0.05

FIG. 15B

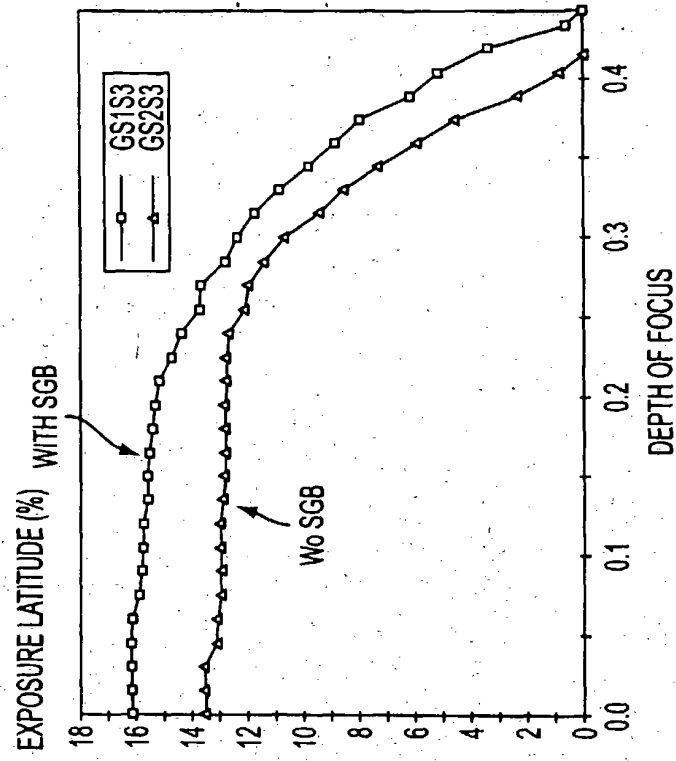


FIG. 15C

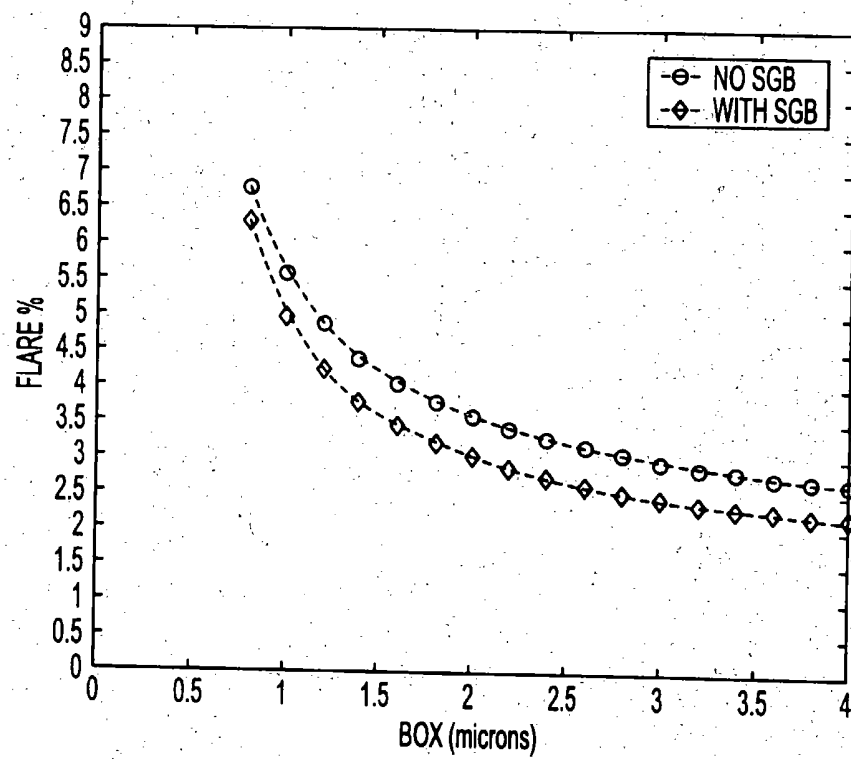


FIG. 16

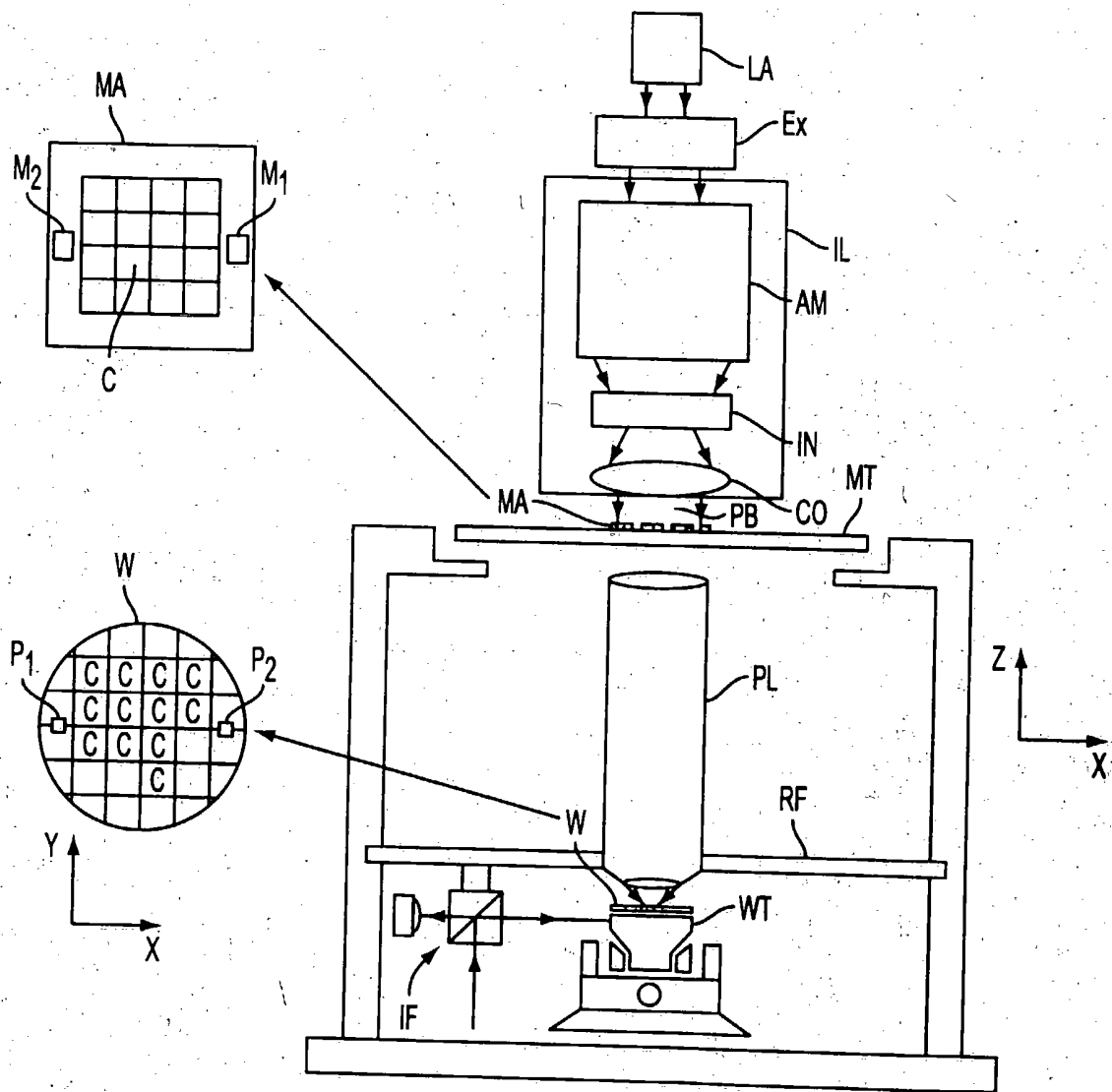


FIG. 17

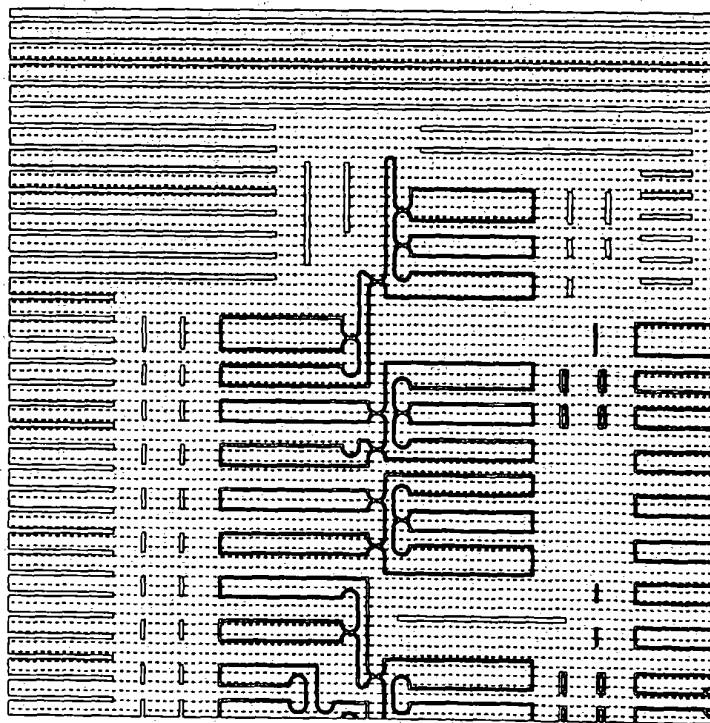


FIG. 18A

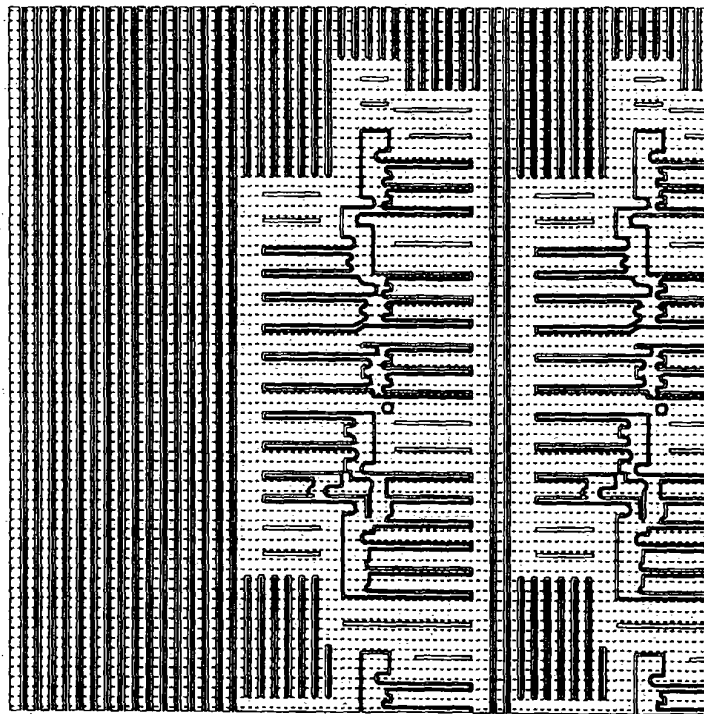


FIG. 18B